Determination of Public Land (Rangeland) Health for 64053 DUNNAHOO HILLS

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for the implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these Standards.

Field assessment worksheets and other available data which evaluate the local indicators, were completed for this allotment. Based on the assessments, it is my determination that the Public Lands within the Dunnahoo Hills Allotment #64053 meet the Upland Sites Standard and (2) Biotic Communities, including Native, Threatened, Endangered, and Special Status Species Standard. There are no Public Land riparian areas on this allotment, therefore this Standard will not be addressed.

<u>/s/ Jerry Dutchover</u> . <u>08/02/2012</u> Assistant Field Manager Date

Standards of Public Land Health Evaluation of 64053 DUNNAHOO HILLS Allotment [03/01/2012]

The Roswell Field Office conducted rangeland health assessments at three study sites within the JAMES CLIETT Allotment #64053. The assessments looked at the Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of each study site. Existing monitoring data was incorporated into and in support of the field assessment. The summary of each assessment is attached and shown in the following table.

Study Area or	UPLAND				BIOTIC		RIPARIAN		
Assessment Area	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet
64053-BIG-E100	X			X			N/A		
64053-NORTH- E099	X			X			N/A		
64053-RIVER- E098	X			X			N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for public land on Dunnahoo Hills, allotment #64053. Ten of these assessed soil site stability, 11 hydrologic functions and 13 for biotic integrity. These qualitative assessments in conjunction with quantitative information gathered from previous data collected on 3 trend plot locations within this allotment were utilized to make rangeland health determinations. Quantitative evaluations are performed by the Roswell Field Office, which include some or all of the following: ground and vegetative cover and composition, production, frequency and ecological condition. These collections were initiated in the late 1970's/early 1980's, are scheduled and conducted approximately every 5 to 10 years.

This allotment contains 4,745 acres of public land. The studies are located on a Loamy SD-3 ecological site, a Salt Flats SD-3 site and a Gyp-Upland CP-2 ecological site. At each of the study locations all of the 22 indicators were rated as either 'None to Slight' or 'Slight to Moderate' degree of departure from the Ecological Site description and/or Ecological Reference Area.

Recommendations: As the majority of the indicators fall in the 'None to Slight' or 'Slight to Moderate' category, this allotment is rated as "Meeting" the standard for Rangeland Health. Continue the rangeland monitoring studies to insure proper stocking rates are maintained and that the perennial grasscover and good plant composition remains.

It is the professional opinion of the Assessment Team that the public land within this allotment meets the Upland and Biotic standards.

Recommendations: Monitoring should continue on this allotment and up to date datum is necessary. The allottee deploys a grazing rotation which is advantageous to the health of the range, both public as well as private land.

RF(Os Upland a	and Biotic Standa	rd As	ses	sment Su	mmary W	orl	ksheet	
		SITE 640:	53-B	[G -]	E100				
Lega	al Land Desc	SENE 24 0090S 024 Meridian 23	0E			Acre	age	3933	
	Ecosite	042CY036NM SALT FLATS SD-3	Γ			Photo Ta	ken	Y	
	Watershed	13060007010 GOPH	ER						
	Observers ARNOLD & PETERSON				Ob	servation D	ate	03/01/2	2012
County	Soil Survey	NM644 CHAVES NORTH			(Soil Var/Ta	xad		
S	oil Map Unit	HhA			So	il Taxon Na	ıme	HOLL	OMEX
Т	exture Class	NM644 L				Soil Ph	ase	HOLL	OMEX
Text	ure Modifier	NM644 LOAM							
	Avg Annual Precipitation					l Avg Grow on Precipitat	_		
	OAA Annual Precipitation		1.6		NOAA G	rowing Sea Precipitat		U X	
	Avg Annual Precipitation		4.93	NO	AA Avg G	rowing Sea Precipitat			
	urbances and Animal Use:	No livestock are note	ed on t	the a	ıllotment at	this time.			
Part 2. Attr	ibutes and I	ndicators							
						logical Site cal Referen	ce A	areas	
Attribute	Indicators		Extre		Moderate to Extreme	Moderate	Sli	ght to derate	None to Slight
S H	Rills								X
Comments:									
S H	Water Flow	Patterns						X	
Comments:	Drought effe	ects							
S H	Pedestals an	d/or Terracettes						X	
Comments:	Very dry conwater erosio	nditions have left the	vegeta	ation	somewhat	subject to	poss	ible wi	nd and
S H	Bare Ground							X	

Comments:				
SH	Gullies		X	
Comments:				·
S	Wind-scoured, Blowouts, and/or Deposition Areas		X	
Comments:				
Н	Litter Movement		X	
Comments:				
S H B	Soil Surface Resistance to Erosion		X	
Comments:				
SHB	Soil Surface Loss or Degradation		X	
Comments:				
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff		X	
Comments:				
SHB	Compaction Layer		X	
Comments:	No livestock trails seen.			
В	Functional/Structural Groups		X	
Comments:				
В	Plant Mortality/Decadence		X	
Comments:	20-30% mortality.			
НВ	Litter Amount		X	
Comments:				
В	Annual Production		X	
Comments:	There is about 250-300 lbs/ac at the	ne present time	e.	
В	Invasive Plants		X	
Comments:	Prickly pear (Opuntia spp.) is note	d here scatter	ed throughout.	
В	Reproductive Capability of Perennial Plants		X	
Comments:				
S	Physical/Chemical/Biological Crusts		X	
Comments:				
В	Wildlife Habitat		X	

Comments:	
В	Wildlife Populations X
Comments:	
В	Special Status Species Habitat X
Comments:	None known to occur.
В	Special Status Species Populations X
Comments:	None known to occur.

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	9	1
Н	Hydrologic	0	0	0	10	1
В	Biotic	0	0	0	11	2

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		0	0	13
Site Notes: 1	No livestock on the allotment at this time			

RFC)s Uplaı	nd and Biotic Standar	rd Asses	sment Su	mma	ry W	orksheet		
		SITE 64053	-NORTI	H-E099					
Legal La	and Desc	NWNE 1 0090S 0240E Meridian 23		Ac	reage	613			
	Ecosite	070BY066NM GYP UPLAND CP-2		Photo 7	Гакеп	Y	Y		
W	atershed	13060005070 SALT							
C	bservers	ARNOLD & PETERSON	(Observation	Date	03/0	03/01/2012		
County So	il Survey	NM644 CHAVES NORTH		Soil Var/	Гaxad				
Soil N	Map Unit	HMA	5	Soil Taxon	Name	HOL	LOMEX		
Text	ure Class	NM644 L		Soil	Phase	HOL REE	LOMEX- VES-MILN	IER	
Texture	Modifier	NM644 LOAM,DRY							
Obser Annual Prec	ved Avg		Observed Avg Growing Season Precipitation						
	A Annual cipitation	1.6	NOAA Growing Season Precipitation		0.:		0.84		
NOAA Avg	g Annual cipitation	4.93	NOAA Avg Growing Season Precipitation						3.81
		There is some oil and ga No animal disturbances of					ads and pipe	elines.	
Part 2. Attr	ibutes an	d Indicators							
				e from Ecologic					
Attribute	Indicator	rs	Extreme	Moderate to Extreme	Mode	erate	Slight to Moderate	None to Slight	
SH	Rills							X	
Comments:									
SH	Water Fl	ow Patterns					X		
Comments:	Slope de	pendent							
SH	Pedestals	s and/or Terracettes					X		
Comments:									
SH	Bare Gro	ound					X		

Comments:				
SH	Gullies		X	
Comments:	Slope dependent; some channelization	n expected.		
S	Wind-scoured, Blowouts, and/or Deposition Areas			X
Comments:				
Н	Litter Movement		X	
Comments:				
SHB	Soil Surface Resistance to Erosion		X	
Comments:				
SHB	Soil Surface Loss or Degradation		X	
Comments:				
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff		X	
Comments:				
SHB	Compaction Layer		X	
Comments:				
В	Functional/Structural Groups		X	
Comments:				
В	Plant Mortality/Decadence		X	
Comments:				
НВ	Litter Amount		X	
Comments:				
В	Annual Production		X	
Comments:				
В	Invasive Plants		X	
Comments:	Mesquite (Prosopis glandulosa) scatte	ered.		
В	Reproductive Capability of Perennial Plants		X	
Comments:				
S	Physical/Chemical/Biological Crusts		X	
Comments:	Physical crusts seen.			
В	Wildlife Habitat		X	

Comments:	
В	Wildlife Populations X
Comments:	
В	Special Status Species Habitat X
Comments:	None known to occur.
В	Special Status Species Populations X
Comments:	None known to occur.

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	8	2
Н	Hydrologic	0	0	0	10	1
В	Biotic	0	0	0	11	2

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		0	0	13
Site Notes:				

RF(Os Upland	and Biotic Standar	rd As	ses	sment Su	mmary W	orksheet	
		SITE 64053	-RIV	ER	R-E098			
Lega	l Land Desc	SWNE 4 0090S 0250 Meridian 23	E			Acreag	e 199	
	Ecosite	042CY007NM LOAN SD-3	MY		·	Photo Take	n Y	
	Watershed	1 13060005080 MACHO						
	Observers	ARNOLD & PETERSON			Obse	rvation Dat	e 03/01/20	12
County	Soil Survey	NM644 CHAVES NORTH			So	il Var/Taxa	d	
So	oil Map Unit	APA			Soil '	Taxon Nam	e ALAMA	
To	exture Class	NM644 FSL				Soil Phas	e ALAMA POQUIT	
Textu	ıre Modifier	NM644 DRY						
	Avg Annual Precipitation				Observed Avg Growing Season Precipitation		-	
	OAA Annual Precipitation		1.6	1		wing Season Precipitation		0.84
	Avg Annual Precipitation	2	4.93	NOAA Avg Growing Season Precipitation			3.81	
	rbances and Animal Use:	No livestock on this a	llotm	ent a	at this time.			
Part 2. Attr	ibutes and l	Indicators						
					e from Ecol on/Ecologic	ogical Site	ce Areas	
Attribute	Indicators		Extre		Moderate to Extreme			None to Slight
SH	Rills							X
Comments:								
SH	Water Flow	Patterns					X	
Comments:								
SH	Pedestals ar	nd/or Terracettes					X	
Comments:								
SH	Bare Groun	d					X	

Comments:						
SH	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
Н	Litter Movement				X	
Comments:						
SHB	Soil Surface Resistance to Erosion				X	
Comments:						
SHB	Soil Surface Loss or Degradation				X	
Comments:						
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
SHB	Compaction Layer				X	
Comments:						
В	Functional/Structural Groups				X	
Comments:						
В	Plant Mortality/Decadence				X	
Comments:						
НВ	Litter Amount				X	
Comments:						
В	Annual Production				X	
Comments:						
В	Invasive Plants				X	
Comments:	Cholla and creosote scattered thro	oughout.				
В	Reproductive Capability of Perennial Plants				X	
Comments:	All plants have vigorous growth a reproductive potential.	and vitality	y. All grasso	es, including	g forbs hav	e good
S	Physical/Chemical/Biological Crusts				X	
Comments:						
В	Wildlife Habitat				X	

Comments:	
В	Wildlife Populations X
Comments:	Mule deer noted here.
В	Special Status Species Habitat X
Comments:	None known to occur.
В	Special Status Species Populations X
Comments:	None known to occur.

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	7	3
Н	Hydrologic	0	0	0	9	2
В	Biotic	0	0	0	11	2

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets	
Soil		0	0	10	
Hydrologic		0	0	11	
Biotic		0	0	13	
Site Notes:					